

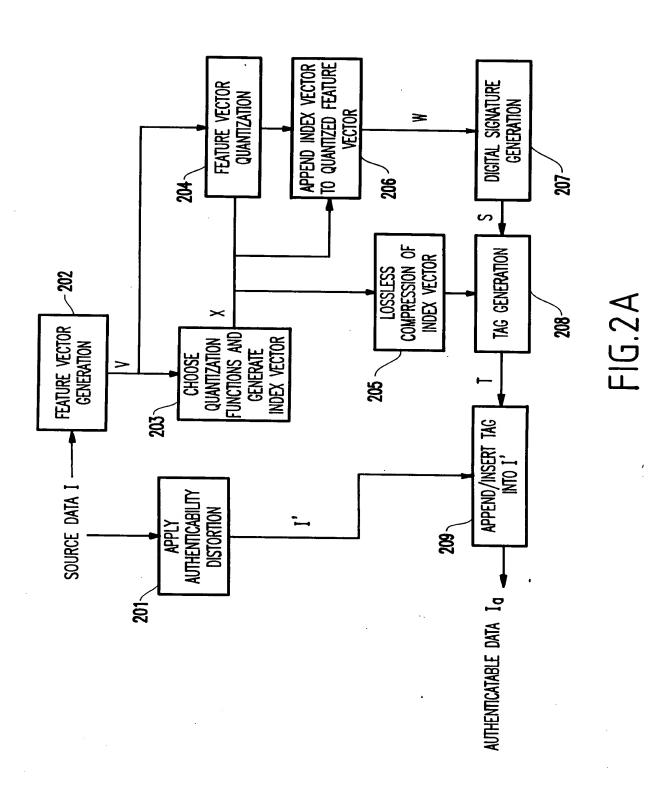
EXTRACT T AUTHENTICATION TAG

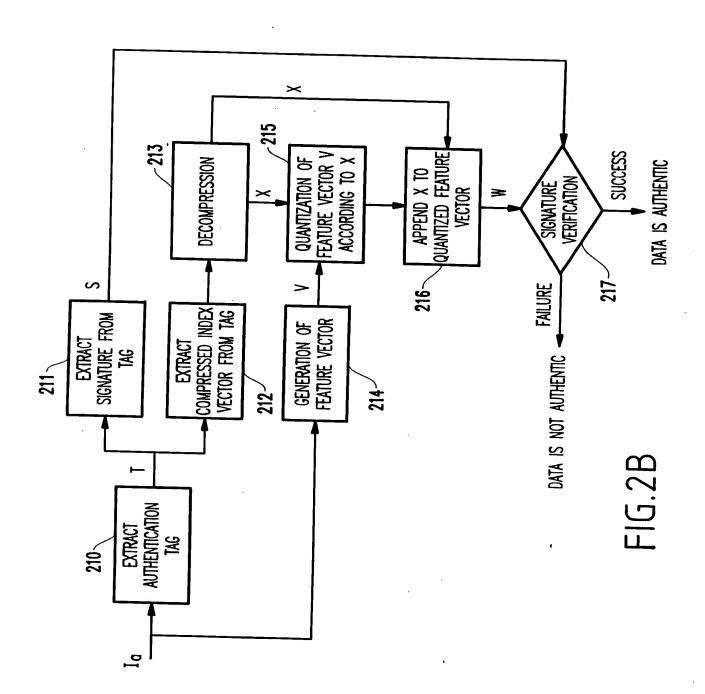
DOES T NO
CORRESPONDS NO
DATA IS NOT AUTHENTIC

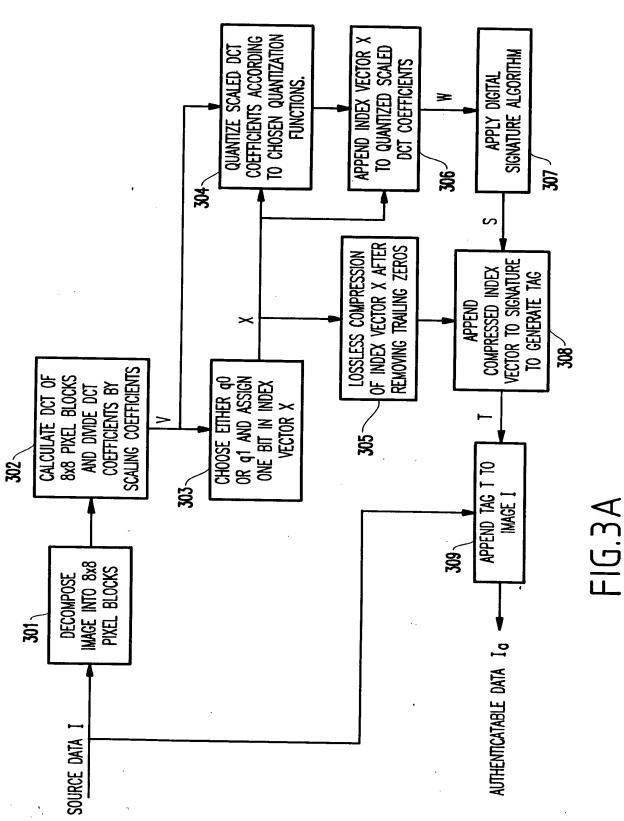
DATA IS AUTHENTIC

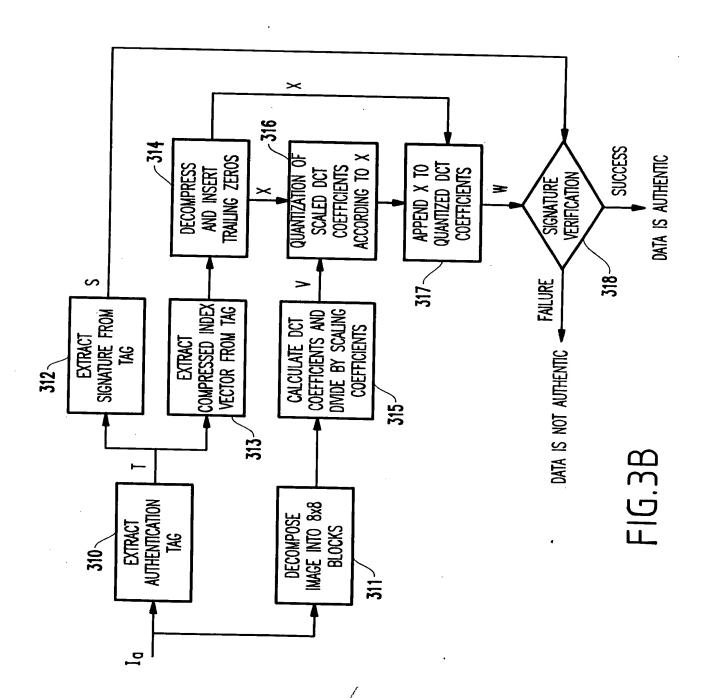
FIG.1A

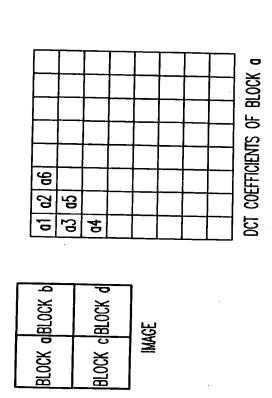
FIG.1B





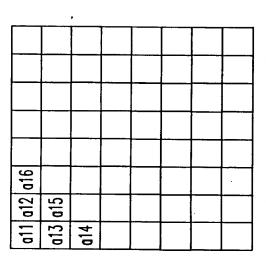






aj IS THE j—TH DCT COEFFICIENT OF BLOCK a. xaj IS THE BIT CORRESPONDING TO THE QUANTIZATION FUNCTION CHOSEN FOR DCT COEFFICIENT aj. BITS OF INDEX VECTOR X xa1|xb1|xc1|xd1|xa2|xb2| ... FIG.5A

FIG.4



BLOCK b

BLOCK a

BLOCK d

BLOCK c

COLOR IMAGE

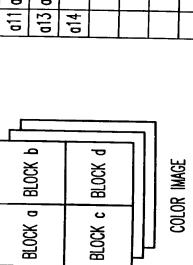
DCT COEFFICIENTS OF BLOCK a OF COLOR PLANE 1

:	
119	
38 x	
px	
:	
xa21	
d18	
· ×	
:	
b12	
Ŧ	
8	
xa1	
:	
a 12	
-	
×	
	xa18xb11xb12 xb18 xd18xa21 xd38xa19

BITS OF INDEX VECTOR X

aij is the j—th DCT coefficient of block a of color plane i. Xaij is the bit corresponding to the quantization function chosen For DCT coefficient aij.

FIG.5B



a16					
a11 a12 a16	a13 a15				
a11	a13	014			

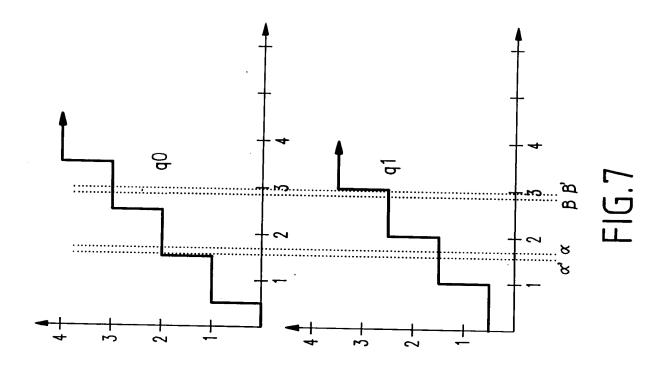
DCT COEFFICIENTS OF BLOCK a OF COLOR PLANE 1

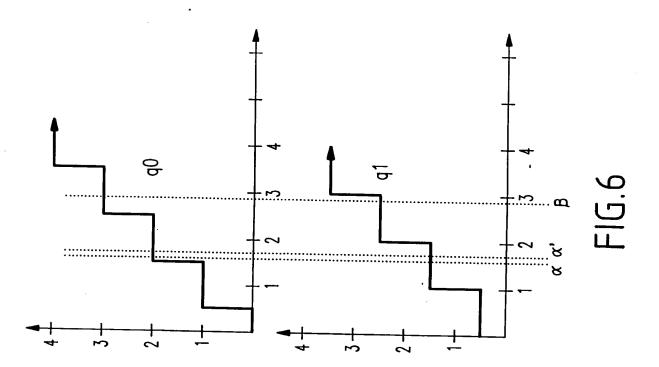
xa11|xb11|xc11|xd11|xa21|xb21|xc21|xd21|xa31|xb31|xc31|xd31|xa12| ...

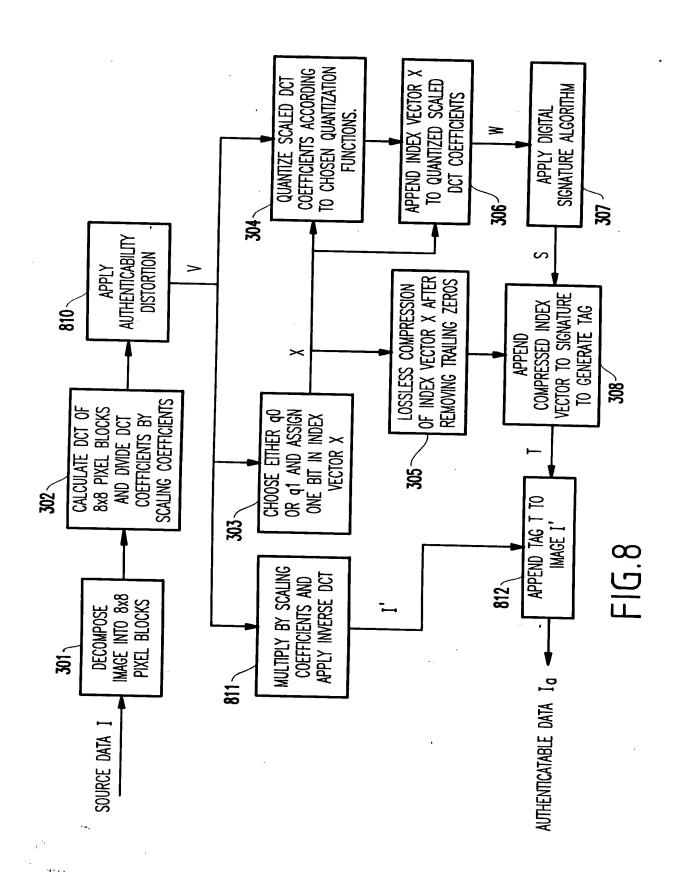
BITS OF INDEX VECTOR X

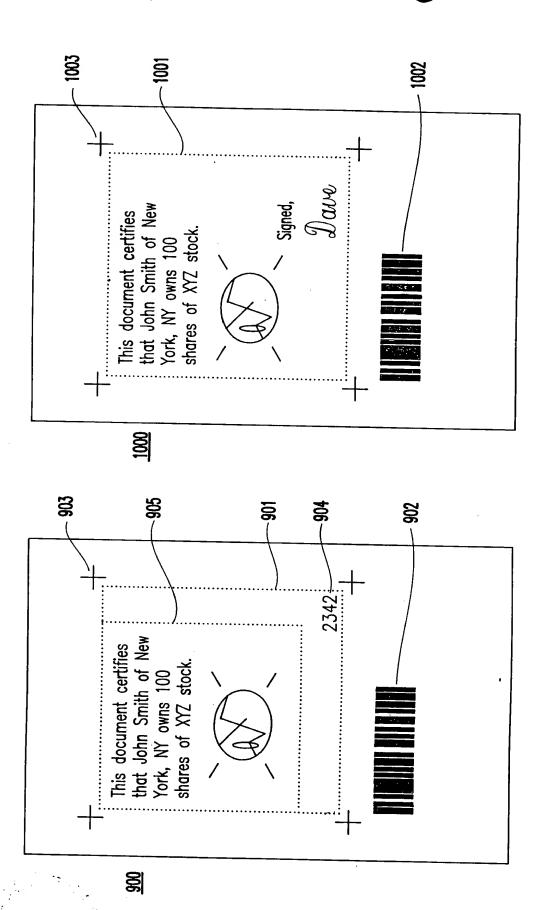
aij is the j—th dct coefficient of block a of color plane ; xaij is the bit corresponding to the quantization function chosen for dct coefficient aij.

F16.5C









F1G.9

FIG.10

